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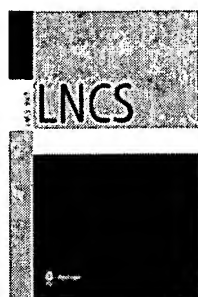
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**Content Types Subject Collections****Book Chapter****Implementing a Reliable Digital Object Archive**

Book Series	Lecture Notes in Computer Science
Publisher	Springer Berlin / Heidelberg
ISSN	0302-9743 (Print) 1611-3349 (Online)
Volume	Volume 1923/2000
Book	Research and Advanced Technology for Digital Libraries: 4th European Conference, ECDL 2000, Lisbon, Portugal, September 2000. Proceedings
Copyright	2000
Page	128
Subject Collection	Computer Science
SpringerLink Date	Thursday, February 19, 2004

**Looking for your books...**...on springer.com**Authors**Brian Cooper¹, Arturo Crespo¹, Hector Garcia-Molina¹

¹Department of Computer Science Stanford University 7 {cooperb, cresp,
hector}@DB.Stanford.EDU

Abstract

An Archival Repository reliably stores digital objects for long periods of time (decades or centuries). The archival nature of the system requires new techniques for storing, indexing, and replicating digital objects. In this paper we discuss the specialized indexing needs of a write-once archive. We also present a reliability algorithm for effectively replicating sets of related objects. We describe a data import utility for archival repositories. Finally, we discuss and evaluate a prototype repository we have built, the Stanford Archival Vault (SAV).

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File System Support for Delta Compression (2000) [\(Make](#)[Corrections\)](#) [\(25 citations\)](#)

Joshua P. MacDonald

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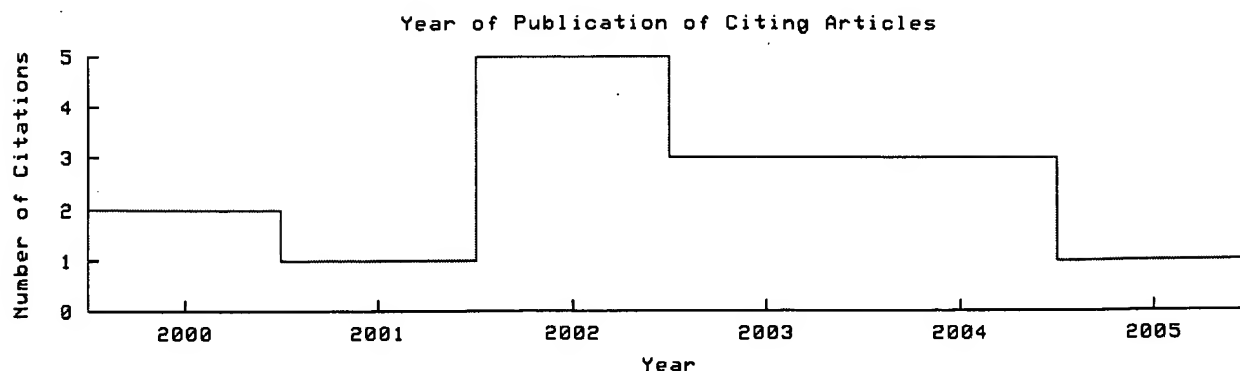
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Josh MacDonald. File system support for delta compression. Masters thesis. Department of Electrical Engineering and Computer Science, University of California at Berkeley, 2000.
<http://citeseer.ist.psu.edu/article/macdonald00file.html> [More](#)

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@misc{ macdonald00file,
  author = "J. MacDonald",
  title = "File system support for delta compression",
  text = "Josh MacDonald. File system support for delta compression. Masters thesis.
    Department of Electrical Engineering and Computer Science, University of
    California at Berkeley, 2000.",
  year = "2000",
  url = "citeseer.ist.psu.edu/article/macdonald00file.html" }
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... the server which sponsored the agent's last state change has to **digitally sign** the complete agent. ... For each **file** in the **archive** (except those in the META ...
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... Permission to make **digital** or hard copies of part or ... This de- **sign** balances the areal coverage of the instrument ... is ex- ported as a binary FITS **file** from the ...
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JA Maldjian, J Listerud - AJR Am J Roentgenol, 2000 - Am Roentgen Ray Soc
Institution: Google Indexer **Sign** In as Individual (Member or Non-Member). ... It creates a tagged image **file** format (TIFF) **digital archive** of these images on ...
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... may also be included within the **archive** to simplify ... security features regarding signed JAR **files** with those of ... the author and owner each **digitally sign** an agent ...
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Y Yang, OF Rana, C Georgousopoulos, DW Walker, R ... - IEEE Conference on Advanced Digital Libraries, Washington DC, 2000 - doi.ieeecomputersociety.org
... and of the important concerns of our de- **sign**. ... The mobile agents based SARA **digital** library provides a sophisticated view ... be a database system or a **file** system. ...
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... candidates, where role-based approval and **sign-off** can be ... packages have yet to integrate
digital signa- tures but general purpose **file** authentication and ...
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JA Senn - Electronic Messaging, 1999 - books.google.com

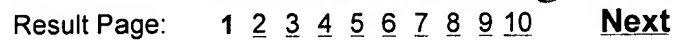
of bonded ... add a date and time token to it, **digitally sign** the package ...

P Lipp, A Sterbenz - Communications and Multimedia Security, 1997 - books.google.com

There should be a mechanism to **digitally sign** this data on the fly while ...

K Henry - Crossroads, 2000 - portal.acm.org

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W Lee, Z Alaywan - Power Engineering Society Winter Meeting, 2000. IEEE, 2000 -

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 ... 3 software publishing signing certificate to **sign** our Java ... only to grant privileges to our **digitally** signed objects ... information in a huge log **file** daily only ...

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 ... All you eventually do is **sign** off and ... external stores also extended to **digital** libraries such ... putting most personal information into structured **archive files**. ...

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 ... **Digitally sign-** ing a Java program needs programming. However, Java comes with a tool to **sign** Java **Archive (JAR) files**, which will be introduced later. ...

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 H Tran, NA Roach, PO'Kane, M Thune - Am J Roentgenol, 2000 - Am Roentgen Ray Soc Institution: Google Indexer **Sign** In as Individual (Member or Non-Member). ... Creating a **Digital** Radiographic Teaching **File** and Database Using a PC and ...

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 ... JAR **file** contains a pair of **files**, a signature instruction and a **digital** signature **file**, for each signer of one or more of the **files** contained in the **archive**. ...

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 ... In that release, a correctly **digitally** signed applet is treated as if it is trusted ... valuable resources (**files**, etc ... are delivered in the JAR (Java **Archive**) format ...

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L Koved, AJ Nadalin, D Neal, T Lawson - IBM Systems Journal, 1998 - research.ibm.com

... The utility for signing JAR **files digitally**, jarsigner, has two major functions:

sign jar files, and ... The certificate(s) contained in a jar **file** are used by ...

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... users control what is stored on disk by explicitly creating, writing, and deleting **files**. ... Permission to make **digital** or hard copies of all or part of this work ...

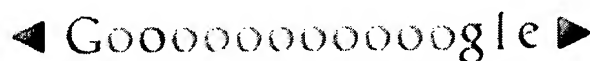
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[Lurking with PGP](#)

MK Johnson - Linux Journal, 1996 - portal.acm.org

... now that every message posted there is ``**digitally** signed by ... Ted Ts'o's signature key used to **sign** other people's ... As of this writing, the **file** you want is pgp-i ...

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 ... project or end user site, **building** the system and ... **patch** management and maintenance
build capability straightforward ... Testers make use of the tools available to ...

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D Cinege - Linux Journal, 1999 - portal.acm.org

 ... In my travels for information on **building** a router with Linux ... just about anything
 you could want to **build** for "light ... it is now easier than ever to make a disk ...

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MK Johnson - Linux Journal, 1996 - portal.acm.org

 ... distributions, you will probably have to **build** PGP from ... you jump through several
 hoops to make sure that ... Instructions for **building** PGP are included, and I wish ...

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 ... After you **archive** the logs, you can run the reporting utility to generate useful
 statistics ... **Patch** Levels ... Make sure that the web servers got the same **patch** levels ...

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S Ludwig, W Kalfa - ACM SIGOPS Operating Systems Review, 2001 - portal.acm.org

 ... FSFS has an extremely modular design to make it as flexible as possible ... tar **archive**
 with all the files, then delete them. ... [6] The International Kernel **Patch**. ...

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RT Fielding, G Kaiser - Internet Computing, IEEE, 1997 - ieeexplore.ieee.org

 ... levels of abstraction, such that the **archive** can be ... to centralize and automate the
patch and vote ... environment allows user/developers to **build** workflow process ...

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[Self-launching encrypted try before you buy software distribution system - all 3 versions »](#)

JA Ronning - US Patent 5,883,954, 1999 - Google Patents

 ... START (INSTALL ACTIVE PROCESS DETECTION CODE) 176 **PATCH** SYSTEM TASK
 TRAP END Tig.

 n ... START (SECTOR **ENCRYPTION**/ DECRYPTION) 206 **ENCRYPT** BUFFER RETU RN
 Page 18. ...

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MH Linehan, NJ Simicich, GY Tsudik - US Patent 5,495,533, 1996 - Google Patents

... identifying if a user is permitted to **create** or access ... client, said key client of said **creating** user uses ... that the Personal Key Server can **update** the Personal ...[Cited by 117](#) - [Related Articles](#) - [Web Search](#)[Secure array of remotely **encrypted** storage devices - all 2 versions »](#)

RC Burns, EG Chron, D Long, BC Reed - US Patent 5,931,947, 1999 - Google Patents

... storage device such as in data backup, **archive** ... Extend Read Entry Change **Update** DeleteBackup CAPABILITIES **Create/Delete** subscribers **Create** objects on the ...[Cited by 34](#) - [Related Articles](#) - [Web Search](#)[File comparison for data backup and file synchronization - all 4 versions »](#)

D Cane, D Hirschman, P Speare, L Vaitzblit, H ... - US Patent 6,101,507, 2000 - Google Patents

... providing file version V3 via the block filter algorithm includes **creating** an **Update**List of ... the data that is needed from each **archive** to **create** the output ...[Cited by 11](#) - [Related Articles](#) - [Web Search](#)[Managing music in orchestras - all 6 versions »](#)

P Bellini, F Fioravanti, P Nesi - Computer, 1999 - ieeexplore.ieee.org

... s station; (9) Masae sends the **update** message to ... To **create** MOODS' formal model, wefirst modeled music ... 3. GM Rader, "**Creating** Printed Music Auto- matically ...[Cited by 23](#) - [Related Articles](#) - [Web Search](#)[Designing an Open E-Mail Interface to a Data **Archive** - all 2 versions »](#)

J Richon - Astronomical Data Analysis Software and Systems IV, 1995 - adsabs.harvard.edu

... reviewing the current system, we decided to **create** an open ... or interface, we found that by making a clean ... the request interface without having to **update** STDADS. ...[Cited by 1](#) - [Related Articles](#) - [Web Search](#)[Toward A Model of Self-administering Data - all 6 versions »](#)

BH Kang, R Wilensky - Proceedings of the First ACM/IEEE Joint Conference on ..., 2001 - doi.ieeecomputersociety.org

... is a collaborator's online storage, the incorporation may **create** a newly ... that user C created a new clique by **creating** a new ... Figure 4: **Update** Propagation Models ...[Cited by 3](#) - [Related Articles](#) - [Web Search](#)[Computer security - all 5 versions »](#)

A Shostack, D Allouch - US Patent 6,298,445, 2001 - Google Patents

... NETECT Demonstrates that **Encryption** Alone Can Not Protect Against Cyberthreats, Web Site (<http://www.netect> ... **CREATE UPDATE LOCK** (GO TO STEP 106) ... **UPDATE ARCHIVE**) ...[Cited by 15](#) - [Related Articles](#) - [Web Search](#)

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DE Denning, DK Branstad - Communications of the ACM, 1996 - portal.acm.org

... Other terms used include key **archive**, key backup, and data recovery system. ...Alternatively, if public keys are used to **create** the DRF, the receiver ... Key **update**. ...[Cited by 107](#) - [Related Articles](#) - [Web Search](#)[Managing vulnerabilities in networked systems - all 11 versions »](#)

RA Martin - Computer, 2001 - ieeexplore.ieee.org

... with the soft- ware suppliers' **update** announcements—to ... It involved **creating** a reference list of ... 32- organization, cross-industry effort to **create** and main ...[Cited by 27](#) - [Related Articles](#) - [Web Search](#)[Commercial online software distribution systems and methods using encryption for security - all 3 versions »](#)

CM Crawford - US Patent 6,014,651, 2000 - Google Patents

... 54] COMMERCIAL ONLINE SOFTWARE DISTRIBUTION SYSTEMS AND METHODS USING ENCRYPTION

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 D Wagner → Q Bradley, RN Horspool, J Vitek - Proceedings of the 1998 conference of the Centre for ...,
 Q Bradley → 1998 - portal.acm.org
 P Ferragina → ... By **sorting** the **strings** on length, the values will ... tests below, Jazz is compared with
 J MacDonald → the **archive** files produced ... but the need to continuously **update** the Huffman ...
 J Hirai → Cited by 34 - [Related Articles](#) - [Web Search](#)

[Search engine using indexing method for storing and retrieving data - all 3 versions »](#)

JA Curtis, GF Scherer - US Patent 6,278,992, 2001 - Google Patents
 ... FIG- 1 **LOCATION** OF RECORD -10 GIVE S **LOCATION** OF RECORD Page 3. ... TC PT
 PT PT-**Pointer**
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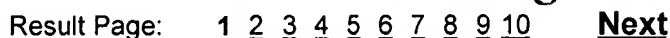
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